UNITED
NATIONS

E

Economic and Social
Council

GENERAL

E/ECE/1147/Add.1
23 March 1987

Original: ENGLISH

ECONOMIC COMMISSION FOR EUROPE

Forty-second session

(Provisional Agenda item 10)

PROGRAMME OF WORK FOR 1987-1991

ADDENDUM

ANNEX I

DRAFT PROGRAMME OF WORK FOR 1987-1991

Note by the Executive Secretary

This addendum contains the programmes of work in the following programme categories as approved by the competent subsidiary bodies:

- 01 (a) - Engineering industries and automation
- 02 - Agriculture
- 05 - Environment
- 06 - Electric power
- 07 - Gas
- 09 - Inland transport
- 11 - Economic plans, programmes and perspectives
- 16 - Water problems

GE.87-40679 /0028a

PROGRAMME 01(a) - ENGINEERING INDUSTRIES AND AUTOMATION

Authority: Programme of work of the Working Party on Engineering Industries and Automation, approved by the Working Party at its seventh session (ECE/ENG.AUT/28, paragraphs 47-51 and Annex I)

Sub-programme 01(a).1: Medium- and long-term trends and prospects in engineering industries and automation

Programme elements

01(a).1.1 Medium-and long-term assessment of engineering industries within national, regional and global economies

01(a).1.2 Medium- and long-term impact of automation on the economy and its individual sectors

Sub-programme 01(a).2: Current developments and prospects in the engineering industries and automation, including appropriate aspects of international trade in this sector

Programme elements

01(a).2.1 Current developments and prospects in the engineering industries and automation, including appropriate aspects of international trade in this sector

Sub-programme 01(a).3: Selected issues in the engineering industries and in automation

Programme elements

01(a).3.1 Technical achievements in telecommunication equipment and implications for industry

01(a).3.2 Development and technological trends in electrical and electronics industries and their industrial applications

01(a).3.3 Software for industrial automation

01(a).3.4 Digital image processing (DIP) in health care

01(a).3.5 Automation means in preventive medicine '87

01(a).3.6 Developments in robotics and flexible manufacturing systems and trends towards computer-integrated manufacturing

01(a).3.7 Trends and prospects in the shipbuilding industry and the production of port and marine equipment

01(a).3.8 New materials and their application in engineering industries

01(a).3.9 Food-processing machinery including packaging techniques

01(a).3.10 Management aspects in the organization, planning, implementation and operation of new technologies

Sub-programme 01(a).4: Environmental and resource-saving problems

01(a).4.1 Low-waste processes and automated equipment for the production of precision implements for engineering industries

Sub-programme 01(a).5: Statistics in engineering industries and automation

Programme elements

01(a).5.1 Publication of the Bulletin of Statistics on World Trade in Engineering Products

01(a).5.2 Development of internationally comparable statistics

PROGRAMME 02 - AGRICULTURE

Authority: Programme of work of the Committee on Agricultural Problems, approved by the Committee at its thirty-eighth session (ECE/AGRI/92, paragraphs 58-64 and Annex I)

Sub-programme 02.1: Medium- and long-term trends and prospects in agriculture

Programme elements

02.1.1 Periodic review of selected long-term developments in agriculture

02.1.2 Long-term prospects for agriculture in southern Europe including island countries

Sub-programme 02.2: Current developments and short-term prospects in agriculture, including international trade

02.2.1 Review of current developments in agriculture and agricultural trade

02.2.2 Review of the market situation for selected commodities

02.2.3 Commodity reports of special interest to the member countries which are developing from the economic point of view

02.2.4 Standardization in the food and agriculture sector

Sub-programme 02.3: Economic and technological issues in agriculture

Programme elements

02.3.1 Agrarian structure and farm rationalization

02.3.2 Agricultural mechanization

02.3.3 Land use, soil fertility, water and crops

02.3.4 Animal husbandry and feedingstuffs

Sub-programme 02.4: Marketing and processing issues of agricultural produce and their influence on agriculture

Programme elements

02.4.1 Marketing of agricultural products

02.4.2 Processing of agricultural products

Sub-programme 02.5: Agriculture and environment

Programme elements

02.5.1 Pollution problems in agriculture

02.5.2 Environmental aspects of agricultural mechanization

Sub-programme 02.6: Food and agricultural statistics

Programme element

02.6.1 Harmonization of food and agricultural statistics

PROGRAMME 05 - ENVIRONMENT

Authority: Programme of work of the Senior Advisers to ECE Governments on Environmental Problems, approved by the Senior Advisers at their fifteenth session (ECE/ENV/52, paragraphs 71-80 and Annex I)

Sub-programme 05.1: Policy and management issues

Programme elements

- 05.1.1 Long-term strategy for environmental protection and rational use of natural resources in member countries
- 05.1.2 Current environmental trends and policies in member countries
- 05.1.3 Contribution to the Overall Economic Perspective to the Year 2000

Sub-programme 05.2: Environmental impact assessment

Programme elements

- 05.2.1 Frameworks and methodology of environmental impact assessment
- 05.2.2 The use of environmental impact assessment in connection with transboundary issues
- 05.2.3 Approaches to post-project analysis
- 05.2.4 Hazard analysis in environmental impact assessment
- 05.2.5 Promotion of environmental impact assessment
- 05.2.6 Criteria for determining environmental significance of projects
- 05.2.7 Environmental impact assessment for sectoral activities

Sub-programme 05.3: Air pollution

Programme elements

- 05.3.1 Information on activities of the Executive Body for the Convention on Long-range Transboundary Air Pollution
- 05.3.2 Selected issues of air pollution

Sub-programme 05.4: Low- and non-waste technology and re-utilization and recycling of wastes

Programme elements

- 05.4.1 Preparation of a Compendium on low- and non-waste technology
- 05.4.2 Cost-effective evaluation of energy- and resource-saving technologies
- 05.4.3 Recovery, recycling and re-utilization of industrial wastes
- 05.4.4 Seminar on Implications of Low-waste Technology
- 05.4.5 Treatment and final storage of hazardous wastes
- 05.4.6 Application of biotechnology in the treatment of industrial wastes
- 05.4.7 Glossary of terms in the field of low- and non-waste technology

Sub-programme 05.5: Resource issues

Programme elements

- 05.5.1 Protection of flora, fauna and their habitats within the ECE region

PROGRAMME 06 - ELECTRIC POWER

Authority: Programme of work of the Committee on Electric Power, approved by the Committee at its forty-fifth session (ECE/EP/74, paragraphs 74-76 and Annex I)

Sub-programme 06.1: Medium- and long-term prospects for electric power

Programme elements

06.1.1 Electric power situation, prospects and policies in the ECE region

Sub-programme 06.2: Electric power generation

Programme elements

06.2.1 Nuclear power stations
06.2.2 Fossil fuel power stations
06.2.3 Hydroelectric schemes
06.2.5 Combined production of electric power and heat

Sub-programme 06.3: Problems of planning and operating large power systems

Programme elements

06.3.1 International interconnections
06.3.3 Maps of high-voltage electric power networks
06.3.4 Electric power systems planning and operation
06.3.5 Load curves and load management

Sub-programme 06.4: Rational use of electricity, and electricity distribution outside the major urban areas

Programme elements

06.4.1 Electricity distribution, equipment and networks outside the major urban areas
06.4.2 Rational use of electricity, equipment and techniques

Sub-programme 06.5: Electric power and the environment

Programme elements

06.5.1 Impact on the environment of electric power stations
06.5.3 Impact on the environment of large cooling towers
06.5.4 Methods of purifying waste water from thermal power stations
06.5.5 Implications of climatic changes induced by carbon dioxide (CO_2) for electricity production using nuclear and fossil-fuel-fired plants

Sub-programme 06.6: Electric power statistics and information

Programme elements

06.6.1 Publication of the Annual Bulletin of Electric Energy Statistics for Europe
06.6.2 Selected statistical issues
06.6.3 Exchange of information on international standardization
06.6.4 Co-ordination of glossaries on electric power

PROGRAMME 07 - GAS

Authority: Programme of work of the Committee on Gas, approved by the Committee at its thirty-third session (ECE/GAS/89, paragraphs 51-52 and Annex II)

Sub-programme 07.1: Medium and long-term prospects

Programme elements

- 07.1.1 Future role of gas in meeting energy requirements
- 07.1.2 Long-term development of the LPG industry

Sub-programme 07.2: Current developments in gas, including international trade

Programme elements

- 07.2.1 Recent developments in gas availabilities and consumption
- 07.2.2 Intraregional trade in gas
- 07.2.3 Interregional trade in gas
- 07.2.4 Investments in the gas and LPG industries
- 07.2.5 Environmental aspects of the gas industry
- 07.2.6 Co-operation in the field of gas research

Sub-programme 07.3: Gas resources

Programme elements

- 07.3.1 Geological and geophysical methods of prospecting for natural gas
- 07.3.2 Exploitation of natural gas, stimulation and enhanced recovery techniques
- 07.3.3 Assessment of natural gas resources
- 07.3.4 Map of natural gas fields in Europe
- 07.3.6 Offshore exploration and production

Sub-programme 07.4: Gas transport and storage

Programme elements

- 07.4.1 Construction, management and maintenance of gas transport systems
- 07.4.2 Offshore technology and sea pipelines
- 07.4.4 Development of underground gas storage facilities
- 07.4.5 Large-scale storage of LPG
- 07.4.6 Methods of meeting seasonal variations in demand for gas

Sub-programme 07.5: Gas use and distribution

Programme elements

- 07.5.1 Use of gas in various consumption sectors
- 07.3.2 Gas saving and rational use
- 07.5.3 Use of gas heat pumps
- 07.5.4 Efficiency of gas-utilizing appliances and equipment
- 07.5.5 Compatibility of natural gases of different characteristics, including natural gas mixed with a hydrogen-containing gas
- 07.5.6 Use of gases as motor-vehicle fuel
- 07.5.7 Distribution pipes and equipment
- 07.5.8 Gasification of solid fuels and waste - production and use of substitute natural gas
- 07.5.9 Use of computers in the gas industry

Sub-programme 07.6: Gas statistics and information

Programme elements

- 07.6.1 Publication of the Annual Bulletin of Gas Statistics
- 07.6.2 Statistics on selected gas issues

PROGRAMME 09 - INLAND TRANSPORT

Authority: Programme of work of the Inland Transport Committee, approved by the Committee at its forty-eighth session (ECE/TRANS/68, paragraphs 230-237 and Add.1)

Sub-programme 09.1: Transport perspectives

Programme elements

- 09.1.1 Review of general trends with regard to transport development and transport policy
- 09.1.2 Analysis of specific transport economic issues
- 09.1.3 Development of transport in the Mediterranean Region

Sub-programme 09.2: Transport infrastructure

Programme elements

- 09.2.1 Road infrastructure
- 09.2.2 Rail transport infrastructure
- 09.2.3 Inland waterway infrastructure
- 09.2.4 Linking of the European transport network to that of other regions
- 09.2.5 Special project: Trans-European North-South Motorway (TEM)

Sub-programme 09.3: Transport vehicles and vessels

Programme elements

- 09.3.1 Harmonization and improvement of regulations and recommendations for road vehicles
- 09.3.2 Arrangements for the elimination of technical barriers to international trade of motor vehicles and their equipment and parts
- 09.3.3 Standardization of railway rolling stock
- 09.3.4 Harmonization and improvement of standards for inland navigation vessels

Sub-programme 09.4: Transport operations and facilitation

Programme elements

- 09.4.1 Harmonization of requirements concerning international road transport and facilitation of its operations
- 09.4.2 Harmonization of requirements concerning international railway transport and facilitation of its operations
- 09.4.3 Harmonization of requirements concerning international inland waterway transport and facilitation of its operations
- 09.4.4 Harmonization of requirements concerning more than one mode of transport
- 09.4.5 Promotion of combined and multimodal transport
- 09.4.6 Harmonization of regulations and standards relating to the international transport of perishable foodstuffs and facilitation of its operations
- 09.4.7 Elaboration of legal provisions applied to traffic on inland waterways

Sub-programme 09.5: Transport safety

Programme elements

09.5.1 Road transport safety
09.5.2 Rail transport safety
09.5.3 Inland water transport safety
09.5.4 Safety requirements for the construction, maintenance and handling of containers and piggyback transport equipment

Sub-programme 09.6: Transport of dangerous goods

Programme elements

09.6.1 Participation in the activities concerning the establishment and up-dating of general rules for the transport of dangerous goods within the framework of the Economic and Social Council's Committee of Experts
09.6.2 Regulations on the transport of dangerous goods by road, rail, inland waterways and combined transport

Sub-programme 09.7: Transport aspects of energy saving and environmental protection

Programme elements

09.7.1 Promotion of economy and efficiency in transport
09.7.2 Impact of transport infrastructure and operations on the environment including pollution and noise

Sub-programme 09.8: Transport statistics and information

Programme elements

09.8.1 Development of internationally comparable and agreed standards including methods of collection and definitions, concerning inland transport and road traffic accident statistics
09.8.2 Publication of the Annual Bulletin of Transport Statistics for Europe
09.8.3 Publication of Statistics of Road Traffic Accidents in Europe
09.8.4 Publication of the results of the road traffic censuses
09.8.5 Periodical circulation of selected transport information
09.8.6 Harmonization of transport statistics in Europe

Sub-programme 09.9: Urban and suburban transport

Sub-programme 09.10: Facilitation of movement and transport of disabled persons

Programme elements

09.10.1 Road transport aspects
09.10.2 Rail transport aspects
09.10.3 Inland water transport aspects

PROGRAMME 11 - ECONOMIC PLANS, PROGRAMMES AND PERSPECTIVES

Authority: Programme of work of the Senior Economic Advisers to ECE Governments, approved by the Senior Advisers at their twenty-third session (ECE/EC.AD/29, paragraphs 52-54 and Annex II)

Sub-programme 11.1: Exchange of information in medium- and long-term economic development

Programme elements

11.1.1 Exchange of information on the medium- and long-term development of national economies

11.1.2 Exchange of information on medium- and long-term plans, programmes and projections

Sub-programme 11.2: Long-term projections and perspectives

Programme elements

11.2.1 Overall Economic Perspective to the Year 2000

11.2.2 Follow-up activities in long-term projections and perspectives

Sub-programme 11.3: Selected medium- and long-term economic issues

Programme elements

11.3.1 Trends and factors in the development of personal and collective services and their impact on economic growth

11.3.2 Structural changes in employment, labour productivity and working patterns and their impact on economic growth

11.3.3 International trade and structural changes - interregional and intraregional trends

Sub-programme 11.4: Planning, programming and projections

Programme elements

11.4.1 New approaches in planning, programming and projections and their implementation

11.4.2 Models and systems of models.

PROGRAMME 16 - WATER PROBLEMS

Authority: Programme of work of the Committee on Water Problems, approved by the Committee at its eighteenth session (ECE/WATER/47, paragraphs 45-51 and Annex III).

Sub-programme 16.1: Over-all management and planning of water resources, including water statistics

Programme elements

16.1.1	Current trends and policies and future prospects regarding the use of water resources and water pollution control
16.1.2	Ground-water management
16.1.3	Co-operation in the field of transboundary flood management
16.1.7	Dam Safety
16.1.8	Ecosystems approach in water management

Sub-programme 16.2: Rational use of water

Programme elements

16.2.1	Implementation of the ECE Declaration of Policy on the Rational Use of Water
16.2.2	Water and agriculture
16.2.5	Automated data processing applied to water management
16.2.6	Optimal water management of small rivers

Sub-programme 16.3: Water pollution control, including transboundary pollution

Programme elements

16.3.1	Implementation of the ECE Declaration of Policy on Prevention and Control of Water Pollution, including Transboundary Pollution
16.3.2	Treatment of domestic sewage and industrial waste water
16.3.3	Monitoring and evaluation of water pollution
16.3.4	Co-operation in the field of transboundary waters